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AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

- 1. (Original) Apparatus for processing data, said apparatus comprising:
- (i) a processor core operable to execute native instructions of a native instruction set; and
- (ii) an instruction translator operable to interpret non-native instructions of a nonnative instruction set into native instructions for execution by said processor core; wherein
- (iii) said instruction translator is responsive to a return to non-native instruction of said non-native instruction set to return processing to a non-native instruction; and
- (iv) said instruction translator is responsive to a return to native instruction of said non-native instruction set to return processing to a native instruction.
- 2. (Original) Apparatus as claimed in claim 1, wherein said instruction translator is a hardware based instruction translator.
- 3. (Original) Apparatus as claimed in claim 1, wherein said instruction translator is a software based interpreter.
- 4. (Original) Apparatus as claimed in claim 1, wherein said instruction translator is a combination of a hardware based instruction translator and a software based interpreter.
- 5. (Previously Presented) Apparatus as claimed in claim 1, wherein said non-native instructions are Java Virtual Machine instructions.
- 6. (Previously Presented) Apparatus as claimed in claim 1, wherein a non-native subroutine is called from native code via a non-native veneer subroutine, such that, upon completion of said non-native subroutine, a return to non-native instruction can be used to return

processing to said non-native veneer subroutine with a return to native instruction within said non-native veneer subroutine serving to return processing to said native code.

- 7. (Original) Apparatus as claimed in claim 6, wherein said non-native subroutine is also called from non-native code.
- 8. (Previously Presented) Apparatus as claimed in claim 6, wherein said non-native veneer subroutine is dynamically created when said non-native subroutine is called from native code.
- 9. (Original) Apparatus as claimed in claim 8, wherein said non-native veneer subroutine is created stored within a stack memory area used by native code operation.
- 10. (Previously Presented) Apparatus as claimed in claim 1, wherein said instruction translator is responsive to a plurality of types of return to non-native instruction.
- 11. (Original) Apparatus as claimed in claim 10, wherein said plurality of types of return to non-native instruction are operable to return with respective different types of return value.
- 12. (Original) Apparatus as claimed in claim 11, wherein said plurality of different types of return value include one or more of:
 - (i) a 32-bit integer return value;
 - (ii) a 64-bit integer return value;
 - (iii) an object reference return value;
 - (iv) a single precision floating point return value;
 - (v) a double precision floating point return value; and
 - (vi) a void return value having no value.

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13. (Previously Presented) Apparatus as claimed in claim 1, wherein said instruction translator is responsive to a plurality of types of return to native instruction.

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November 24, 2004

- 14. (Original) Apparatus as claimed in claim 13, wherein said plurality of types of return to native instruction are operable to return with respective different types of return value.
 - 15. (Original) A method of processing data, said method comprising the steps of:
 - (i) executing native instructions of a native instruction set using a processor core; and
- (ii) interpreting non-native instructions of a non-native instruction set into native instructions for execution by said processor core; wherein
- (iii) in response to a return to non-native instruction of said non-native instruction set, returning processing to a non-native instruction; and
- (iv) in response to a return to native instruction of said non-native instruction set, returning processing to a native instruction.
- 16. (Original) A computer program product carrying a computer program for controlling a data processing apparatus in accordance with the method of claim 15.
 - 17. (Canceled).
 - 18. (Canceled).
 - 19. (Canceled).
- processing means for executing native instructions of a native instruction set; and translator means for interpreting non-native instructions of a non-native instruction set into native instructions for execution by said processor core processing means being responsive to a return to non-native instruction of said non-native instruction set to return processing to a non-native instruction, and responsive to a return to native instruction of said non-native

20. (Currently Amended) Apparatus for processing data, comprising:

instruction set to return processing to a native instruction.

21. (Currently Amended) Apparatus as claimed in claim 4 20, further comprising:

means for calling a non-native subroutine from native code via a non-native veneer subroutine, such that, upon completion of said non-native subroutine, a return to non-native instruction can be used to return processing to said non-native veneer subroutine with a return to native instruction within said non-native veneer subroutine serving to return processing to said native code.

- 22. (Previously Presented) Apparatus as claimed in claim 21, further comprising: means for calling said non-native subroutine from non-native code.
- 23. (Previously Presented) Apparatus as claimed in claim 21, further comprising:

 means for dynamically creating said non-native veneer subroutine when said non-native subroutine is called from native code.
- 24. (Previously Presented) Apparatus as claimed in claim 23, further comprising:
 means for storing said created non-native veneer subroutine within a stack memory area
 used by native code operation.
- 25. (Previously Presented) Apparatus as claimed in claim 20, wherein said translator means is responsive to a plurality of types of return to non-native instruction.
- 26. (Previously Presented) Apparatus as claimed in claim 25, wherein said plurality of types of return to non-native instruction are operable to return with respective different types of return value.
- 27. (Previously Presented) Apparatus as claimed in claim 20, wherein said instruction translator is responsive to a plurality of types of return to native instruction.
- 28. (Previously Presented) Apparatus as claimed in claim 27, wherein said plurality of types of return to native instruction are operable to return with respective different types of return value.